

CLAIMS:

1. Station (1) comprising a rake receiver (3) with a finger (34), which finger (34) comprises a Hadamard transformer (62).
2. Station (1) as defined in claim 1, wherein the finger (34) comprises a
5 descrambling section (50) and a despreading section (60), which despreading section (60) comprises the Hadamard transformer (62).
3. Station (1) as defined in claim 2, wherein the descrambling section (50)
10 comprises a multiplier (52) for multiplying a finger input signal with a complex conjugated scrambling code for descrambling the finger input signal, and wherein the despreading section (60) further comprises a serial-to-parallel converter (61) for serial-to-parallel
converting a descrambled signal, which serial-to-parallel converter (61) comprises
downsamplers (71,72,73) coupled to inputs of the Hadamard transformer (62) and comprises
a selector (63) for generating despread symbols per channel, which selector (63) is coupled
15 to outputs of the Hadamard transformer (62).
4. Station (1) as defined in claim 3, wherein the rake receiver (3) further
comprises:
 - a further finger (35);
 - 20 - a delaying section (32) for delaying a frequency converted signal and for
generating the finger signal destined for the finger (34) and a further finger signal destined
for the further finger (35); and
 - a synchronization section (31) for receiving the frequency converted signal
and for in response controlling the delaying section (32).
- 25 5. Station (1) as defined in claim 1, wherein the station (1) is a high-speed
downlink packet access station (1) in a universal mobile telecommunication system, with a
number of de-channelization codes used being at least ten percent of a despreading factor
used.

6. Station (1) as defined in claim 5, wherein the desreading factor used is equal to sixteen, with the maximum possible number of de-channelization codes used being equal to five, ten or fifteen.
- 5 7. Rake receiver (3) for use in a station (1) and comprising a finger (34), which finger (34) comprises a Hadamard transformer (62).
8. Finger (34) for use in a rake receiver (3), which finger (34) comprises a
10 Hadamard transformer (62).
9. Method for desreading a descrambled signal, which method comprises a Hadamard transforming step.
- 15 10. Processor program product for desreading a descrambled signal, which processor program product comprises a Hadamard transforming function.